

What is claimed is:

1. A covering composition for optical fiber comprising as essential components

(A) an unsaturated polyester oligomer having substantially two or more (meth)acryloyl groups in a molecule wherein a glass transition temperature of a
5 cured substance thereof is 100 to 350°C;

(B) at least one oligomer selected from the group consisting of the following components:

(B-a) epoxy modified (meth)acrylate oligomer,

(B-b) polyether polyol modified (meth)acrylate oligomer, and

10 (B-c) urethane polyether polyol modified (meth)acrylate or urethane polyester polyol modified (meth)acrylate; and

(C) a photopolymerization initiator.

2. The covering composition for optical fiber according to claim 1, comprising a silicone additive (D) in the composition.

3. The covering composition for optical fiber according to claim 1, comprising a photopolymerizable unsaturated compound (E) in the composition.

4. A covered optical fiber having a covering layer comprising a cured material of the covering composition for optical fiber of claim 1 on the periphery of the optical fiber.

5. A covered optical fiber comprising a primer covering layer, an ink covering layer and a matrix covering layer sequentially laminated on the periphery of the optical fiber wherein any one of the primer covering layer, the ink covering layer and the matrix covering layer comprises a cured material of the covering compositions for optical fiber of claim 1.